

ABSTRACT

The main object of the present invention is to provide an artificial corundum crystal which can be put into practical use at low costs and a process for producing the same.

The invention provides an artificial corundum crystal having at least one crystal face selected from the group consisting of {113}, {012}, {104}, {110}, {101}, {116}, {211}, {122}, {214}, {100}, {125}, {223}, {131}, and {312} faces. The invention also provides a process for producing an artificial corundum crystal, in which the artificial corundum crystal is produced by a flux evaporation method of heating a sample containing a raw material and a flux to precipitate a crystal and grow the crystal by use of flux evaporation as a driving force.